```
=> file caplus
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                          ENTRY     SESSION
FULL ESTIMATED COST                                        0.21        0.21

FILE 'CAPLUS' ENTERED AT 13:24:57 ON 17 AUG 2002
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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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FILE COVERS 1907 - 17 Aug 2002  VOL 137 ISS 8
FILE LAST UPDATED: 16 Aug 2002  (20020816/ED)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.

CAS roles have been modified effective December 16, 2001. Please
check your SDI profiles to see if they need to be revised. For
information on CAS roles, enter HELP ROLES at an arrow prompt or use
the CAS Roles thesaurus (/RL field) in this file.

=> s stretchable(l)composite (l) (sheet or web)
          1679 STRETCHABLE
        226892 COMPOSITE
        137137 COMPOSITES
        258666 COMPOSITE
                  (COMPOSITE OR COMPOSITES)
        222511 SHEET
        139918 SHEETS
        292121 SHEET
                  (SHEET OR SHEETS)
         20076 WEB
          5627 WEBS
         22558 WEB
                  (WEB OR WEBS)
L1           33 STRETCHABLE(L)COMPOSITE (L) (SHEET OR WEB)

=> s fibrous assembly
         45061 FIBROUS
         98449 ASSEMBLY
         24646 ASSEMBLIES
        114076 ASSEMBLY
                  (ASSEMBLY OR ASSEMBLIES)
L2           70 FIBROUS ASSEMBLY
                  (FIBROUS(W)ASSEMBLY)

=> s fibrous (l) assembly (l)sheet
         45061 FIBROUS
         98449 ASSEMBLY
         24646 ASSEMBLIES
        114076 ASSEMBLY
                  (ASSEMBLY OR ASSEMBLIES)
        222511 SHEET
```

```
         139918 SHEETS
         292121 SHEET
                  (SHEET OR SHEETS)
L3          103 FIBROUS (L) ASSEMBLY (L)SHEET

=> s (fibers or fibres) (1) ethylene propylene copolymer
         442481 FIBERS
           1374 FIBRES
         397958 ETHYLENE
           3154 ETHYLENES
         399627 ETHYLENE
                  (ETHYLENE OR ETHYLENES)
         144349 PROPYLENE
            287 PROPYLENES
         144439 PROPYLENE
                  (PROPYLENE OR PROPYLENES)
         473081 COPOLYMER
         160320 COPOLYMERS
         515325 COPOLYMER
                  (COPOLYMER OR COPOLYMERS)
          15175 ETHYLENE PROPYLENE COPOLYMER
                  (ETHYLENE(W)PROPYLENE(W)COPOLYMER)
L4          558 (FIBERS OR FIBRES) (L) ETHYLENE PROPYLENE COPOLYMER

=> s ethylene propylene butene
         397958 ETHYLENE
           3154 ETHYLENES
         399627 ETHYLENE
                  (ETHYLENE OR ETHYLENES)
         144349 PROPYLENE
            287 PROPYLENES
         144439 PROPYLENE
                  (PROPYLENE OR PROPYLENES)
          46412 BUTENE
           5494 BUTENES
          48201 BUTENE
                  (BUTENE OR BUTENES)
L5          141 ETHYLENE PROPYLENE BUTENE
                  (ETHYLENE(W)PROPYLENE(W)BUTENE)

=> d his

     (FILE 'HOME' ENTERED AT 13:24:20 ON 17 AUG 2002)

     FILE 'CAPLUS' ENTERED AT 13:24:57 ON 17 AUG 2002
L1           33 S STRETCHABLE(L)COMPOSITE (L) (SHEET OR WEB)
L2           70 S FIBROUS ASSEMBLY
L3          103 S FIBROUS (L) ASSEMBLY (L)SHEET
L4          558 S (FIBERS OR FIBRES) (L) ETHYLENE PROPYLENE COPOLYMER
L5          141 S ETHYLENE PROPYLENE BUTENE

=> s sheet (1) inelastic (1) binding (1)spots
         222511 SHEET
         139918 SHEETS
         292121 SHEET
                  (SHEET OR SHEETS)
          55735 INELASTIC
             13 INELASTICS
          55735 INELASTIC
                  (INELASTIC OR INELASTICS)
         727076 BINDING
           1639 BINDINGS
         727528 BINDING
                  (BINDING OR BINDINGS)
```

```
         40891 SPOTS
L6           0 SHEET (L) INELASTIC (L) BINDING (L)SPOTS

=> s inelastic sheet
         55735 INELASTIC
            13 INELASTICS
         55735 INELASTIC
                 (INELASTIC OR INELASTICS)
        222511 SHEET
        139918 SHEETS
        292121 SHEET
                 (SHEET OR SHEETS)
L7           1 INELASTIC SHEET
                 (INELASTIC(W)SHEET)

=> s inelastic (l)sheet
         55735 INELASTIC
            13 INELASTICS
         55735 INELASTIC
                 (INELASTIC OR INELASTICS)
        222511 SHEET
        139918 SHEETS
        292121 SHEET
                 (SHEET OR SHEETS)
L8         152 INELASTIC (L)SHEET

=> d his

     (FILE 'HOME' ENTERED AT 13:24:20 ON 17 AUG 2002)

     FILE 'CAPLUS' ENTERED AT 13:24:57 ON 17 AUG 2002
L1          33 S STRETCHABLE(L)COMPOSITE (L) (SHEET OR WEB)
L2          70 S FIBROUS ASSEMBLY
L3         103 S FIBROUS (L) ASSEMBLY (L)SHEET
L4         558 S (FIBERS OR FIBRES) (L) ETHYLENE PROPYLENE COPOLYMER
L5         141 S ETHYLENE PROPYLENE BUTENE
L6           0 S SHEET (L) INELASTIC (L) BINDING (L)SPOTS
L7           1 S INELASTIC SHEET
L8         152 S INELASTIC (L)SHEET

=> s l1 and l3 and l4
L9           1 L1 AND L3 AND L4

=> d bib,abs

L9   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2002 ACS
AN   2001:546070  CAPLUS
DN   135:108599
TI   Elastically stretchable composite sheets
     with high stretchability comprising laminates of a thermoplastic
     stretchable elastic sheet and a nonwoven sheet
     comprising fibers consisting of propylene polymers having inelastic
     stretchability and intermittently joined to one or two surfaces of the
     elastic sheet
IN   Kobayashi, Toshio; Ohata, Hiroyuki
PA   Japan
SO   U.S. Pat. Appl. Publ., 9 pp.
     CODEN: USXXCO
DT   Patent
LA   English
FAN.CNT 1
     PATENT NO.         KIND  DATE          APPLICATION NO.  DATE
     ---------------    ----  --------      ---------------  --------
PI   US 2001009715       A1   20010726      US 2001-766275   20010119
```

	JP 2001200460	A2	20010727	JP 2000-11994	20000120
	BR 2001000345	A	20011009	BR 2001-345	20010119
	CN 1307857	A	20010815	CN 2001-112332	20010120
PRAI	JP 2000-11994	A	20000121		

AB The **stretchable sheets** comprise laminates of an elastic **sheet** (A) having stretchability essentially in one or two directions orthogonal to each other and showing stretch in one direction .gtoreq.80%, and a **sheet**-like **fibrous assembly** (B) having an inelastic stretchability in one of the two directions and joined to .gtoreq.1 surface of A **sheet** at bonding sections arranged intermittently in the two directions and comprising component **fibers** each consisting of **ethylene-propylene copolymer** (I) contg. 0.5-10% ethylene units, butene-**ethylene-propylene copolymer** (II) contg. 0.5-10% ethylene units and 0.5-15% butene units, or a mixt. comprising 100-10% two polymers from I and II. The **composite sheets** are prepd. by the steps comprising the steps of (a) continuously feeding together A **web** comprising thermoplastic polymers and B **web** exhibiting breaking extension .gtoreq.150% in one direction and placing A **web** upon B **web**, (b) joining A **web** and B **web** intermittently in one direction and in the direction orthogonal to the first direction and essentially joining the **webs** in one direction, (c) stretching the **webs** at a stretch within the elasticity limit of A **web** and smaller than the breaking extension of B **web**, and (e) keeping the **composite** to cause contraction of the **composite**. The **composite sheets** are useful for disposable diapers, sanitary napkins, and disposable medical gowns.

=> file stnguide

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	46.94	47.15

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.62	-0.62

FILE 'STNGUIDE' ENTERED AT 13:30:56 ON 17 AUG 2002

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Aug 9, 2002 (20020809/UP).

=> log y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.12	47.27

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-0.62

STN INTERNATIONAL LOGOFF AT 13:31:52 ON 17 AUG 2002

=> S COMPOSITE OR LAMINATE
THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE
Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of

commands which can be used in this file.

=> FILE CAPLUS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.84	0.84

FILE 'CAPLUS' ENTERED AT 13:40:01 ON 14 FEB 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 14 Feb 2003 VOL 138 ISS 8
FILE LAST UPDATED: 13 Feb 2003 (20030213/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> S COMPOSITE OR LAMINATE
         235714 COMPOSITE
         142569 COMPOSITES
         268776 COMPOSITE
                   (COMPOSITE OR COMPOSITES)
          75420 LAMINATE
          56531 LAMINATES
          92924 LAMINATE
                   (LAMINATE OR LAMINATES)
L1       346241 COMPOSITE OR LAMINATE

=> S STRETCHABLE OR STRETCH-ABLE
           1745 STRETCHABLE
          24357 STRETCH
           4808 STRETCHES
          28507 STRETCH
                   (STRETCH OR STRETCHES)
         176780 ABLE
             26 ABLES
         176806 ABLE
                   (ABLE OR ABLES)
              1 STRETCH-ABLE
                   (STRETCH(W)ABLE)
L2         1745 STRETCHABLE OR STRETCH-ABLE

=> S FIBERS OR FIBRES
         457714 FIBERS
           1574 FIBRES
L3       458105 FIBERS OR FIBRES

=> S ETHYLENE(L)PROPYLENE(L)COPOLYMER
         439891 ETHYLENE
           3213 ETHYLENES
         441451 ETHYLENE
```

```
                  (ETHYLENE OR ETHYLENES)
          148997 PROPYLENE
             288 PROPYLENES
          149088 PROPYLENE
                  (PROPYLENE OR PROPYLENES)
          487783 COPOLYMER
          166860 COPOLYMERS
          532901 COPOLYMER
                  (COPOLYMER OR COPOLYMERS)
L4         37086 ETHYLENE(L)PROPYLENE(L)COPOLYMER

=> S ETHYLENE(L)PROPYLENE(L)BUTENE(L)COPOLYMER
          439891 ETHYLENE
            3213 ETHYLENES
          441451 ETHYLENE
                  (ETHYLENE OR ETHYLENES)
          148997 PROPYLENE
             288 PROPYLENES
          149088 PROPYLENE
                  (PROPYLENE OR PROPYLENES)
           50902 BUTENE
            5672 BUTENES
           52556 BUTENE
                  (BUTENE OR BUTENES)
          487783 COPOLYMER
          166860 COPOLYMERS
          532901 COPOLYMER
                  (COPOLYMER OR COPOLYMERS)
L5          2936 ETHYLENE(L)PROPYLENE(L)BUTENE(L)COPOLYMER

=> S ETHYLENE
          439891 ETHYLENE
            3213 ETHYLENES
L6        441451 ETHYLENE
                  (ETHYLENE OR ETHYLENES)

=> S PROPYLENE
          148997 PROPYLENE
             288 PROPYLENES
L7        149088 PROPYLENE
                  (PROPYLENE OR PROPYLENES)

=> S BUTENE
           50902 BUTENE
            5672 BUTENES
L8         52556 BUTENE
                  (BUTENE OR BUTENES)

=> D HIS

     (FILE 'HOME' ENTERED AT 13:37:55 ON 14 FEB 2003)

     FILE 'CAPLUS' ENTERED AT 13:40:01 ON 14 FEB 2003
L1        346241 S COMPOSITE OR LAMINATE
L2          1745 S STRETCHABLE OR STRETCH-ABLE
L3        458105 S FIBERS OR FIBRES
L4         37086 S ETHYLENE(L)PROPYLENE(L)COPOLYMER
L5          2936 S ETHYLENE(L)PROPYLENE(L)BUTENE(L)COPOLYMER
L6        441451 S ETHYLENE
L7        149088 S PROPYLENE
L8         52556 S BUTENE

=> S L4 AND L5
L9          2936 L4 AND L5
```

```
=> S L1 AND L2 AND L3 AND L9
L10           3 L1 AND L2 AND L3 AND L9

=> D L10 1-3 BIB,ABS

L10  ANSWER 1 OF 3  CAPLUS  COPYRIGHT 2003 ACS
AN   2001:546070  CAPLUS
DN   135:108599
TI   Elastically stretchable composite sheets with high
     stretchability comprising laminates of a thermoplastic
     stretchable elastic sheet and a nonwoven sheet comprising
     fibers consisting of propylene polymers having inelastic
     stretchability and intermittently joined to one or two surfaces of the
     elastic sheet
IN   Kobayashi, Toshio; Ohata, Hiroyuki
PA   Japan
SO   U.S. Pat. Appl. Publ., 9 pp.
     CODEN: USXXCO
DT   Patent
LA   English
FAN.CNT 1
     PATENT NO.         KIND  DATE          APPLICATION NO.   DATE
     ---------------    ----  --------      --------------    --------
PI   US 2001009715      A1    20010726      US 2001-766275    20010119
     JP 2001200460      A2    20010727      JP 2000-11994     20000120
     SG 89370           A1    20020618      SG 2001-236       20010117
     TW 471961          B     20020111      TW 2001-90101155  20010118
     BR 2001000345      A     20011009      BR 2001-345       20010119
     CN 1307857         A     20010815      CN 2001-112332    20010120
PRAI JP 2000-11994      A     20000121
AB   The stretchable sheets comprise laminates of an
     elastic sheet (A) having stretchability essentially in one or two
     directions orthogonal to each other and showing stretch in one direction
     .gtoreq.80%, and a sheet-like fibrous assembly (B) having an inelastic
     stretchability in one of the two directions and joined to .gtoreq.1
     surface of A sheet at bonding sections arranged intermittently in the two
     directions and comprising component fibers each consisting of
     ethylene-propylene copolymer (I) contg.
     0.5-10% ethylene units, butene-ethylene-
     propylene copolymer (II) contg. 0.5-10% ethylene
     units and 0.5-15% butene units, or a mixt. comprising 100-10%
     two polymers from I and II.  The composite sheets are prepd. by
     the steps comprising the steps of (a) continuously feeding together A web
     comprising thermoplastic polymers and B web exhibiting breaking extension
     .gtoreq.150% in one direction and placing A web upon B web, (b) joining A
     web and B web intermittently in one direction and in the direction
     orthogonal to the first direction and essentially joining the webs in one
     direction, (c) stretching the webs at a stretch within the elasticity
     limit of A web and smaller than the breaking extension of B web, and (e)
     keeping the composite to cause contraction of the
     composite.  The composite sheets are useful for
     disposable diapers, sanitary napkins, and disposable medical gowns.

L10  ANSWER 2 OF 3  CAPLUS  COPYRIGHT 2003 ACS
AN   1999:380797  CAPLUS
DN   131:20224
TI   Laminated products of spun-bonded nonwoven fabrics
IN   Motomura, Shigeyuki; Nishino, Kazushige; Nagaoka, Haruki
PA   Mitsui Chemicals Inc., Japan
SO   Jpn. Kokai Tokkyo Koho, 8 pp.
     CODEN: JKXXAF
DT   Patent
LA   Japanese
```

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11158766	A2	19990615	JP 1997-324247	19971126
PRAI	JP 1997-324247		19971126		

AB The products with good stretchability in the transverse direction and strength in the longitudinal direction, comprise (A) .gtoreq.1 spun-bonded nonwoven fabric which had been stretched (1.2-3.0):1 under heat in the longitudinal direction to afford the stretchability in the transverse direction, and (B) .gtoreq.1 **stretchable** melt-blown nonwoven fabric where at least 1 surface of the products is the A which is obtained from **composite fibers** of **propylene** polymers (I) having Mw/Mn 2-4 and **ethylene** polymers (II) having Mw/Mn 1.5-4 at the I/II wt. ratio of 5-30:95-70. Thus, an A-B-A **laminate** was prepd. in this manner where the A is a transversely-**stretchable** spun-bonded nonwoven fabric of core-shell **fibers** having the core component from an **ethylene-propylene copolymer** (**ethylene** content 4.7 mol%, d. 0.90 g/cm3, MFR 50 g/10-min) and the shell component from a 1-**butene-ethylene copolymer** (1-**butene** content 4.0 mol%, d. 0.948 g/cm3, MFR 30 g/10-min), and the B is a melt-blown nonwoven fabric of a 40/60 blend of a styrene-**ethylene**-1-**butene**-styrene block **copolymer** and a 1-**butene-ethylene copolymer** (MFR 69 g/10-min, d. 0.889 g/cm3).

L10 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS
AN 1991:64221 CAPLUS
DN 114:64221
TI **Stretchable** nonwoven fabrics with high strength
IN Takai, Yosuke
PA Daiwa Spinning Co. Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DT Patent
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 02200859	A2	19900809	JP 1989-14666	19890123
PRAI	JP 1989-14666		19890123		

AB The title fabrics contain .gtoreq.85% fiber blends composed of 5-40% latently crimping thermally fusible **fibers** from mixt. of resins with m.p. 100-150.degree. and resins with m.p. 150-300.degree. which crimp at m.p. of the lower-m.p. resins, and 60-95% latently crimping **fibers** which crimp at processing temp. of 120-180.degree.. Thus, 20% **composite fibers** A composed of high-d. polyethylene shell and poly(butylene terephthalate) core which generates 85/25 mm crimps by heating at 125.degree. was blended with 80% **composite fibers** B composed of 1-**butene-ethylene-propylene copolymer** shell and polypropylene core which generates 90/25 mm crimps by heating at 135.degree., opened to form webs, which were heated at 135.degree. for 1 min to give a 100 g/m2 thermally fused nonwoven fabric with good repeated elastic recovery, which showed breaking length 0.7 km and elongation at rupture 140%, vs. 1.1 and 50, resp., for a similar nonwoven fabric composed of 100% **composite fibers** A.

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	39.86	40.70

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.95	-1.95

STN INTERNATIONAL LOGOFF AT 13:44:54 ON 14 FEB 2003